


Amendments to the Claims:

1. (currently amended) A method for operating a proxy disposed between a user and a document accessible to said user over a computer network, ~~in order to facilitate re-use of objects within said document from a cache without necessarily requiring user validation of said objects upon reuse,~~ comprising:
- (a) obtaining an electronic document:
 - (i) identifiable by a network address of said document;
 - (ii) including one or more references to one or more embedded objects;
 - (iii) each said one or more imbedded objects ~~object~~ being identifiable by a preexisting network address therefor;
 - (b) for at least one of said one or more embedded objects, facilitating storage and re-use thereof from a cache accessible to said user [,] without necessarily requiring user validation of said one or more embedded objects ~~object~~ upon said re-use, by:
 - (i) specifying a new network address uniquely identifying said one or more embedded objects ~~object~~; and
 - (ii) specifying cacheability information for said one or more embedded objects ~~object~~; and
 - (c) modifying said document by replacing said preexisting address for said one or more embedded objects ~~object~~ with said new network address[;].
 - ~~(d) transmitting said modified document to said user;~~
 - ~~(e) receiving a user request for at least one of said embedded objects; and~~
 - ~~(f) in response to said request;~~
 - ~~(i) transmitting said cacheability information to said requesting user;~~
 - ~~(ii) evaluating the validity of said requested object, using information from said user request; and~~
 - ~~(iii) transmitting an outcome of said validity evaluation to said requesting user.~~
2. (original) The method of claim 1 occurring automatically in response to said user request for said document.

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3. (original) The method of claim 1 where said proxy is implemented as an intermediary server located between a computer of said user and a server of said document.
 4. (original) The method of claim 1 where said new network address has at least a portion in common with said preexisting network address.
 5. (original) The method of claim 1 where said cacheability information includes a long expiry date.
 6. (original) The method of claim 1 where said cacheability information includes a long maxage parameter.
 7. (original) The method of claim 1 where said cacheability information includes a relatively recent last modified date.
 8. (original) The method of claim 1 where said cacheability information includes how long said object can be cached without revalidation.
 9. (original) The method of claim 1 where said proxy is co-located at a server of said document.
 10. (currently amended) The method of claim 9 where said document ~~was~~ is dynamically generated at said server.
 11. (original) The method of claim 10 where said dynamic generation includes executing a programmatic description of said document in conjunction with data for at least one variable in said programmatic description.
 12. (currently amended) The method of claim 1 further comprising storing said one or more embedded objects ~~object~~ at said proxy for later use.
 13. (currently amended) The method of claim 12 further comprising validating said one or more embedded objects that are stored ~~object~~ against a server thereof.
 14. (currently amended) The method of claim 13 further comprising refreshing said one or more embedded objects ~~object~~ using condensation techniques.

15. (currently amended) The method of claim 4 34, where ~~said step (f)~~ said steps (i) through (iii) recited in claim 34 includes include:
- (i) determining said preexisting network address for said object;
 - (ii) fetching said object from said preexisting network address;
 - (iii) replacing said cacheability information in said object; and
 - (iv) forwarding said object in response to said request.
16. (currently amended) The method of claim 4 33, where said user request in said step recited in claim 33 ~~said step (e)~~ comes from said user of ~~said step (d)~~ recited in said last step of claim 1.
17. (currently amended) The method of claim 4 33, where said user request in said step recited in claim 33 ~~(e)~~ comes from a user different than said user recited in said last step of claim 1 ~~of said step (d)~~.
18. (currently amended) A computer-readable medium comprising program logic instructions for operating a proxy disposed between a user and a document accessible to said user over a computer network, in order to facilitate re-use of objects within said document from a cache without necessarily requiring user validation of said objects upon re-use, said instructions when executed:
- (a) obtaining an electronic document:
 - (i) identifiable by a network address of said document;
 - (ii) including one or more references to one or more embedded objects;
 - (iii) each said one or more embedded objects ~~object~~ being identifiable by a preexisting network address therefor;
 - (b) for at least one of said one or more embedded objects, facilitating storage and re-use thereof from a cache accessible to said user, without necessarily requiring user validation of said one or more embedded objects ~~object~~ upon said re-use, by:
 - (i) specifying a new network address uniquely identifying said ~~object~~ one or more embedded objects; and
 - (ii) specifying cacheability information for said ~~object~~ one or more embedded objects; and
 - (c) modifying said document by replacing said preexisting address for said ~~object~~ one or more embedded objects with said new network address[;].
 - (d) ~~transmitting said modified document to said user;~~

(e) ~~receiving a user request for at least one of said embedded objects; and~~
(f) ~~in response to said user request;~~
 (i) ~~transmitting said cacheability information to said requesting user;~~
 (ii) ~~evaluating the validity of said requested object, using information from~~
 ~~said user request; and~~
 (iii) ~~transmitting an outcome of said validity evaluation to said requesting~~
 ~~user.~~

19. (original) The method of claim 18 occurring automatically in response to said user's request for said document.
20. (original) The method of claim 18 where said proxy is implemented as an intermediary server located between a computer of said user and a server of said document.
21. (original) The method of claim 18 where said new network address has at least a portion in common with said preexisting network address.
22. (currently amended) A device configured to facilitate re-use of objects within said document from a cache ~~without necessarily requiring user validation of said objects upon re-use, said device~~ comprising:
- (a) ~~means~~ resources for obtaining an electronic document:
 - (i) identifiable by a network address of said document;
 - (ii) including one or more references to one or more embedded objects;
 - (iii) each said ~~object~~ one or more embedded objects being identifiable by a preexisting network address therefor;
 - (b) ~~means~~ resources for facilitating storage and re-use of at least one of said one or more embedded objects, from a cache accessible to said user, without necessarily requiring user validation of said ~~object~~ one or more embedded objects upon said re-use, by:
 - (i) specifying a new network address uniquely identifying said ~~object~~ one or more embedded objects; and
 - (ii) specifying cacheability information for said ~~object~~ one or more embedded objects; and
 - (c) ~~means~~ resources for modifying said document by replacing said preexisting address for said ~~object~~ one or more embedded objects with said new network address[;].

- (d) ~~means for transmitting said modified document to said user;~~
(e) ~~means for receiving a user request for at least one of said embedded objects;~~
(f) ~~means for transmitting said cacheability information to said requesting user;~~
(g) ~~means for evaluating the validity of said requested object, using information from said user request; and~~
(h) ~~means for transmitting an outcome of said validity evaluation evaluation to said requesting user.~~

23. (original) The device of claim 22 occurring automatically in response to said user's request for said document.
24. (currently amended) The ~~proxy~~ device of claim 22 where said a proxy is implemented as an intermediary server located between a computer of said user and a server of said document.
25. (original) The device of claim 22 where said new network address has at least a portion in common with said preexisting network address.
26. (currently amended) The method of claim 4 34, wherein ~~(f)~~ step (ii) recited in claim 34 includes validating said object against a content server.
27. (currently amended) The method of claim 4 34, wherein ~~(f)~~ step (iii) recited in claim 34 includes instructing said user to use a copy of said object accessible to said user.
28. (previously presented) The method of claim 1, further comprising transmitting to said user a version of said object.
29. (currently amended) A method for operating a proxy disposed between a user and a document accessible to said user over a computer network, in order to facilitate re-use of objects within said document from a cache instead of necessarily requiring downloading said objects upon each use, comprising:
- (a) obtaining an electronic document:
 - (i) identifiable by a network address of said document;
 - (ii) including one or more references to one or more embedded objects;
 - (iii) each said ~~object~~ one or more embedded objects being identifiable by a network address therefor;

(b) for at least one of said one or more embedded objects, facilitating storage and re-use thereof from a cache accessible to said user, without necessarily requesting said ~~object~~ one or more embedded objects upon said use, by specifying cacheability information for said ~~object~~ one or more embedded objects that:

- (i) permits caching thereof;
- (ii) including an entity tag uniquely identifying said ~~object~~ one or more embedded objects; and
- (iii) specifies a required validation of said ~~object~~ one or more embedded objects. [;]

~~(c) — transmitting said document to said user;~~

~~(e) — receiving a user request for at least one of said embedded objects; and~~

~~(f) — in response to said user request;~~

~~(i) — transmitting at least a portion of said cacheability information to said requesting user;~~

~~(ii) — evaluating the validity of said requested object, using information from said user request; and~~

~~(iii) — transmitting an outcome of said validity evaluation to said requesting~~

user.

30. (currently amended) The method of claim 29 45 wherein:

(a) said validity evaluation does not indicate invalidity; and

(b) further comprising instructing said user to use a copy of said object accessible to said user.

31. (currently amended) The method of claim 29 45 where:

(a) said validity evaluation indicates invalidity; and


(b) further comprising transmitting to said user a version of said object.

32. (new) The method of claim 1, further comprising:

transmitting said modified document to said user.

33. (new) The method of claim 32, further comprising:

receiving a user request for at least one of said embedded objects.

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34. (new) The method of claim 33, further comprising:
in response to said request;
(i) transmitting said cacheability information to said requesting user;
(ii) evaluating the validity of said requested object, using information from said user request; and
(iii) transmitting an outcome of said validity evaluation to said requesting user.
35. (new) The medium of claim 18, further comprising:
transmitting said modified document to said user.
36. (new) The medium of claim 35, further comprising:
receiving a user request for at least one of said embedded objects.
37. (new) The medium of claim 36, further comprising:
in response to said request;
(i) transmitting said cacheability information to said requesting user;
(ii) evaluating the validity of said requested object, using information from said user request; and
(iii) transmitting an outcome of said validity evaluation to said requesting user.
38. (new) The device of claim 22, further comprising:
resources for transmitting said modified document to said user.
39. (new) The device of claim 38, further comprising:
resources for receiving a user request for at least one of said embedded objects.
40. (new) The device of claim 39, further comprising:
resources for transmitting said cacheability information to said requesting user.
41. (new) The device of claim 40, further comprising:
resources for evaluating the validity of said requested object, using information from said user request.
42. (new) The device of claim 41, further comprising:
resources for transmitting an outcome of said validity evaluation to said requesting user.

43. (new) The method of claim 29, further comprising:
transmitting said modified document to said user.
44. (new) The method of claim 43, further comprising:
receiving a user request for at least one of said embedded objects.
45. (new) The method of claim 44, further comprising:
in response to said request;
(i) transmitting said cacheability information to said requesting user;
(ii) evaluating the validity of said requested object, using information from said user request; and
(iii) transmitting an outcome of said validity evaluation to said requesting user.
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